Statement:

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Trademark:

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Version:

User's Manual V1.1 for G31MX/46GMX Series motherboard.

Symbol description:

Note: refers to important information that can help you to use motherboard better.

Attention: indicates that it may damage hardware or cause data loss, and tells you how to avoid such problems.

Warning: means that a potential risk of property damage or physical injury exists.

More information:

If you want more information about our products, please visit Foxconn's website: http://www.foxconnchannel.com

WEEE: The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Declaration of conformity

CE

HON HAI PRECISION INDUSTRY COMPANY LTD
66 , CHUNG SHAN RD., TU-CHENG INDUSTRIAL DISTRICT,
TAIPEI HSIEN, TAIWAN, R.O.C.

declares that the product

Motherboard

G31MX/G31MX-S/G31MX-K/46GMX-S

is in conformity with
(reference to the specification under which conformity is declared in
accordance with 89/336 EEC-EMC Directive)

☑ EN 55022: 1998/A2: 2003	Limits and methods of measurements of radio disturbance characteristics of information technology equipment
☑ EN 61000-3-2/:2000	Electromagnetic compatibility (EMC) Part 3: Limits Section 2: Limits for harmonic current emissions (equipment input current <= 16A per phase)
☑ EN 61000-3-3/A1:2001	Electromagnetic compatibility (EMC) Part 3: Limits Section 2: Limits of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current <= 16A
☑ EN 55024/A2:2003	Information technology equipment-Immunity characteristics limits and methods of measurement

Signature : James Liang Place / Date : TAIPEI/2007

Printed Name : James Liang Position/ Title : Assistant President

Declaration of conformity

FC

Trade Name:	FOXCONN
Model Name:	G31MX/G31MX-S/G31MX-K/46GMX-S
Responsible Party:	PCE Industry Inc.
Address:	458 E. Lambert Rd. Fullerton, CA 92835
Telephone:	714-738-8868
Facsimile:	714-738-8838
Equipment Classification:	FCC Class B Subassembly
Type of Product:	Motherboard
Manufacturer:	**HON HAI PRECISION INDUSTRY COMPANY LTD**
Address:	66 , CHUNG SHAN RD., TU-CHENG INDUSTRIAL DISTRICT, TAIPEI HSIEN, TAIWAN, R.O.C.

Supplementary Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tested to comply with FCC standards.

Signature : James Liang Date : 2007

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Attention:

1. Attach the CPU and heatsink using silica gel to ensure full contact.
2. It is suggested to select high-quality, certified fans in order to avoid damaging the motherboard and CPU due to high temperature.
3. Never turn on the computer if the CPU fan is not properly installed.
4. Ensure that the DC power supply is turned off before inserting or removing expansion cards or other peripherals, especially when you insert or remove a memory module. Failure to switch off the DC power supply may result in serious damage to your system or memory module.

Attention:

We cannot guarantee that your system will operate normally while overclock. Normal operation depends on the overclock capacity of your device.

Attention:

Since BIOS programs are upgrated from time to time, the BIOS description in this manual is just for reference. We do not guarantee that the content of this manual will remain consistent with the actual BIOS version at any given time in the future.

Attention:

The pictures of objects used in this manual are just for your reference. Please refer to the physical motherboard.

Attention:

Please visit the Foxconn global English website (**http://www.foxconnchannel.com**) to download the latest BIOS file and drivers for this motherboard.

Chapter 1

Thank you for buying Foxconn's G31MX/46GMX Series motherboard. This series of motherboard is one of our new products, and offers superior performance, reliability and quality, at a reasonable price. This motherboard adopts the advanced Intel® G31/946GZ + ICH7 chipset, providing a computer platform with high integration, powerful compatibility and high performance-price ratio for users.

This chapter includes the following information:

- Specifications
- Jumpers

Specifications - - *English*

Size	• Micro ATX form factor : 244mm x 208mm
CPU	• LGA775 socket for Intel® Core™ 2 Quad, Core™ 2 Extreme, Core™ 2 Duo, Pentium® Dual-Core, Pentium® 4 Extreme Edition(90nm), Pentium® D, Pentium® 4, Celeron® processors
Chipset	• Northbridge: Intel® G31 / 946GZ • Southbridge: Intel® ICH7
Front Side Bus	• 1333 (OverClock)/1066 /800 MHz (for G31) • 1066 /800/533 MHz (for 946GZ)
Memory	• 2 x 240-pin DIMM slots • Supports Dual-Channel DDR2 800/667 (for G31) • Supports Dual-Channel DDR2 667/533 (for 946GZ) • Supports up to 4GB
Expansion Slots	• 1 x PCI Express x16 slot • 1 x PCI Express x1 slot • 2 x PCI slots
Audio	• Realtek 6-channel Audio CODEC / Realtek 8-channel Audio CODEC • Supports S/PDIF output, Jack-Sensing function, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s LAN Controller / Realtek Gigabit LAN Controller
Storage	• 2 x Ultra DMA 100/66/33 devices • 4 x SATA 300MB/s devices
Rear Panel I/O	• 1 x PS/2 Mouse Port • 1 x PS/2 Keyboard Port • 1 x Serial Port • 1 x Parallel Port • 1 x VGA Port • 4 x USB 2.0 Ports • 1 x RJ45 LAN Port • 6/8-channel Audio Ports

(continued on the next page)

Internal I/O Connectors	• 2 x USB 2.0 headers(supports 4 USB 2.0 ports) • 4 x SATA connectors • 1 x Floppy connector • 1 x IDE connector • 1 x Chassis intruder header(INTR) • 1 x CD_IN header • 1 x Speaker header (optional) • 1 x S/PDIF_OUT header • 1 x TPM header (optional) • 1 x COM2 header (optional) • 1 x Front Audio connector • 1 x 24-pin ATX Power connector • 1 x 4-pin ATX_12V Power connector • 1 x IrDA header (optional) • 1 x CPU Fan connector • 1 x System Fan connector • 1 x NB Fan connector (optional) • Front panel connector
Support CD	• Driver • Utility

• Specifications are subject to change without notice

产品规格- -简体中文

尺寸	• uATX 结构: 244mm x 208mm
中央处理器	• 支持采用 LGA775 封装的 Intel® Core™ 2 Quad,Core™ 2 Extreme,Core™ 2 Duo,Pentium® Dual-Core, Pentium® 4 Extreme Edition(90nm), Pentium® D, Pentium® 4, Celeron® 处理器
芯片组	• 北桥: Intel® G31/946GZ • 南桥: Intel® ICH7
系统总线	• 1333(OverClock)/1066/800 MHz (G31) • 1066/800/533 MHz (946GZ)
内存	• 2 个 240针脚内存插槽 • 支持双通道 DDR2 800/667(G31) • 支持双通道 DDR2 667/533(946GZ) • 内存总容量最大可达 4GB
扩展槽	• 1 个 PCI Express x16 插槽 • 1 个 PCI Express x1 插槽 • 2 个 PCI 插槽
音频	• Realtek 6 声道音频编解码器 / Realtek 8 声道音频编解码器 • 支持 S/PDIF 输出,Jack-Sensing 功能, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s LAN Controller / Realtek Gigabit LAN Controller
存储	• 2 个 Ultra DMA 100/66/33 设备 • 4 个 SATA 300MB/s 设备
后面板I/O	• 1 个 PS/2 鼠标接口 • 1 个 PS/2 键盘接口 • 1 个 串行接口 • 1 个 并行接口 • 1 个 VGA 接口 • 4 个 USB 2.0 接口 • 1 个 RJ45 网络接口 • 6/8声道音频接口

(下页继续)

内置连接器	• 2 个 USB 2.0 接头（提供 4 USB 2.0 接口） • 4 个 SATA 接头 • 1 个 软驱接口 • 1 个 IDE 接口 • 1 个 机箱开启侦测接头 • 1 个 CD_IN 接头 • 1 个 Speaker 接头(选配) • 1 个 S/PDIF_OUT 接头 • 1 个 COM2 接头(选配) • 1 个 TPM 接头(选配) • 1 个 前置音频接头 • 1 个 24 针ATX 电源接口 • 1 个 4 针 ATX_12V 电源接口 • 1 个 红外线通讯接头(选配) • 1 个 CPU 风扇接头 • 1 个 系统风扇接头 • 1 个 北桥风扇接头(选配) • 前端面板接头
实用程序光盘	• 驱动程序 • 应用程序

• 规格若有任何更改，恕不另行通知

Technische Daten--*Deutsch*

Größe	• Micro ATX-Formfaktor: 244 mm x 208 mm
CPU	• LGA775-Sockel für Intel®_ CoreTM 2 Quad-, CoreTM 2 Extreme-, CoreTM 2 Duo-, Pentium®_Dual-Core-, Pentium®_4 Extreme Edition(90nm)-, Pentium®_D-, Pentium®_4-, Celeron®-Prozessoren
Chipsatz	• Northbridge: Intel G31 / 946GZ • Southbridge: Intel ICH7
Front Side Bus	• 1333(Übertaktung)/1066/800 MHz (für G31) • 1066/800/533 MHz (für 946GZ)
Speicher	• 2 x 240-polige DIMM-Steckplätze • Unterstützt Dual-Channel DDR2 800/667 (für G31) • Unterstützt Dual-Channel DDR2 667/533 (für 946GZ) • Unterstützt bis 4GB
Erweiterungs steckplätze	• 1 x PCI Express x16-Steckplatz • 1 x PCI Express x1-Steckplatz • 2 x PCI-Steckplätze
Audio	• Realtek 6-Kanal-Audio CODEC / Realtek 8-Kanal-Audio CODEC • Unterstützt S/PDIF-Ausgang, Anschlusserkennung, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s / Realtek Gigabit LAN
Speichergeräte	• 2 x Ultra DMA 100/66/33-Geräte • 4 x SATA-Geräte, 300 MB/s
I/O-Anschlüsse an der Rückseite	• 1 x PS/2-Mausanschluss • 1 x PS/2-Tastaturanschluss • 1 x Seriellanschluss • 1 x Parallelanschluss • 1 x VGA-Port • 4 x USB 2.0-Ports • 1 x RJ45-LAN-Port • 6/8-Kanal-Audio-Ports

(Fortsetzung auf der nächsten Seite)

Interne I/O-Anschlüsse	• 2 x USB 2.0-Anschlussleisten (Unterstützung für 4 USB 2.0-Ports) • 4 x SATA-Anschlüsse • 1 x Diskettenlaufwerkanschluss • 1 x IDE-Anschluss • 1 x Gehäuse-offen-Anschluss (INTR) • 1 x CD_IN-Anschluss • 1 x Lautsprecher-Anschluss (optional) • 1 x S/PDIF_OUT-Anschluss • 1 x TPM-Anschluss (optional) • 1 x COM2-Anschluss (optional) • 1 x Front-Audio-Anschluss • 1 x ATX Power, 24-polig-Anschluss • 1 x ATX_12V Power, 4-polig-Anschluss • 1 x IrDA-Anschluss (optional) • 1 x CPU-Lüfter-Anschluss • 1 x Systemlüfter-Anschluss • 1 x NB-Lüfter-Anschluss (optional) • Frontbedienfeld-Anschluss
Support-CD	• Treibe • Dienstprogramme

• Angaben können sich ohne Vorankündigung ändern.

Características--*Español*

Tamaño	• Micro ATX factor de forma: 244mm x 208mm
CPU	• Conector LGA775 para procesadores Intel® CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium® Dual-Core, Pentium® 4 Extreme Edition(90nm), Pentium® 4, Pentium® D, Celeron®
Conjunto de chips	• Northbridge: Intel G31 / 946GZ • Southbridge: Intel ICH7
Bus frontal	• 1333(OverClock)/1066 /800 MHz (para G31) • 1066 /800/533 MHz (para 946GZ)
Memoria	• 2 x ranuras DIMM de 240-pin • Compatible DDR 2 de doble canal 800/667 (para G31) • Compatible DDR 2 de doble canal 667/533 (para 946GZ) • Compatible con hasta 4GB
Ranuras de expansión	• 1 x ranura PCI Express x16 • 1 x ranura PCI Express x1 • 2 x ranuras PCI
Audio	• Realtek 6 canales Audio CODEC / Realtek 8 canales Audio CODEC • Compatible salida S/PDIF, sensible a conexión, sonido Intel® de Alta Definición
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Almacenamiento	• 2 x dispositivos Ultra DMA 100/66/33 • 4 x dispositivos SATA 300MB/s
Panel de E/S trasero	• 1 x Puerto de ratón PS/2 • 1 x Puerto de teclado PS/2 • 1 x Puerto Serie • 1 x Puerto Paralelo • 1 x Puerto de VGA • 4 x Puertos USB 2.0 • 1 x Puerto LAN RJ45 • Puertos de 6/8 canales Audio

(continúa en la página siguiente)

Conectores internos de E/S	• 2 x Cabeceras USB 2.0 (admite 4 puertos USB 2.0) • 4 x Conectores SATA • 1 x Conector de disco flexible • 1 x Conector de IDE • 1 x Cabecera de intrusos en bastidor (INTR) • 1 x Cabecera de CD_IN • 1 x Cabecera de altavoz (opcional) • 1 x Cabecera S/PDIF_OUT • 1 x Cabecera TPM (opcional) • 1 x Conector de COM2 (opcional) • 1 x Conector de Audio frontal • 1 x Conector de 24-pin ATX Power • 1 x Conector de 4-pin ATX_12V Power • 1 x Cabecera de IrDA (opcional) • 1 x Conector de ventilador de CPU • 1 x Conector de ventilador de Sistema • 1 x Conector de ventilador NB (opcional) • Conector de panel frontal
CD de soporte	• Controlador • Utilidades

• Las características se encuentran sujetas a cambios sin aviso previo.

Especificações--*Portugués*

Tamanho	• Factor de forma Micro ATX de 244 x 208 mm
CPU	• Socket LGA775 para processadores Intel®_ CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium®_Dual-Core, Pentium®_4 Extreme Edition(90nm), Pentium®_D, Pentium®_4, Celeron®
Chipset	• Northbridge: Intel G31 / 946GZ • Southbridge: Intel ICH7
FSB(FrontSide Bus)	• 1333(OverClock) /1066 /800 MHz (para o G31) • 1066 /800/533 MHz (para o 946GZ)
Memória	• 2 ranhuras DIMM de 240 pinos • Suporta módulos de memória DDR2 800/667 de canal duplo (para o G31) • Suporta módulos de memória DDR2 667/533 de canal duplo (para o 946GZ) • Suporta até 4 GB
Ranhuras de expansão	• 1 ranhura PCI Express x16 • 1 ranhura PCI Express x1 • 2 ranhuras PCI
Áudio	• Realtek com 6 canais, codec de áudio / Realtek com 8 canais, codec de áudio • Suporta saída S/PDIF, função Jack-Sensing, áudio de alta definição da Intel®
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Armazenamento	• 2 dispositivos Ultra DMA 100/66/33 • 4 dispositivos SATA de 300 MB/s
Entrada/Saída pelo painel traseiro	• 1 x Porta para rato PS/2 • 1 x Porta para Teclado PS/2 • 1 x Porta série • 1 x Porta paralela • 1 x Porta VGA • 4 x Portas USB 2.0 • 1 x Porta LAN RJ45 • Portas 6/8 canais, áudio

(continua na página seguinte)

Conectores internos de entrada/saída	• 2 x Conectores USB 2.0 (para 4 portas USB 2.0) • 4 x Conectores SATA • 1 x Conector da unidade de disquetes • 1 x Conector IDE • 1 x Conector para detecção de intrusão no chassis(INTR) • 1 x Conector CD_IN • 1 x Conector de altifalante (opcional) • 1 x Conector S/PDIF_OUT • 1 x Conector TPM (opcional) • 1 x Conector COM2 (opcional) • 1 x Conector Áudio frontal • 1 x Conector de alimentação ATX de 24 pinos • 1 x Conector de alimentação ATX de 4 pinos e de 12 V • 1 x Conector IrDA (opcional) • 1 x Conector da ventoinha da CPU • 1 x Conector ventoinha do sistema • 1 x Conector da ventoinha NB(opcional) • Conector de painel frontal
CD de suporte	• Controlador • Utilitários

• As especificações estão sujeitas a alteração sem aviso prévio.

Specifiche- -*Italiano*

Dimensioni	• Formato micro ATX: 244 mm x 208 mm
CPU	• Socket LGA775 per processori Intel® CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium® Dual-Core, Pentium® 4 Extreme Edition(90nm), Pentium® D, Pentium® 4, Celeron®
Chipset	• Northbridge: Intel G31 / 946GZ • Southbridge: Intel ICH7
FSB(Front Side Bus)	• 1333(Overclock)/1066 /800 MHz (per G31) • 1066 /800/533 MHz (per 946GZ)
Memoria	• 2 alloggi DIMM 240 pin • Supporto DDR2 800/667 Dual-Channel (per G31) • Supporto DDR2 667/533 Dual-Channel (per 946GZ) • Supporto fino a 4GB
Alloggi d'espansione	• 1 Alloggio PCI Express x16 • 1 Alloggio PCI Express x1 • 2 Alloggi PCI
Audio	• Realtek 6-canali audio CODEC / Realtek 8-canali audio CODEC • Supporto output S/PDIF, funzione di rilevamento connettori, Intel® High Definition Audio
LAN	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
Archivio	• 2 dispositivi Ultra DMA 100/66/33 • 4 dispositivi SATA 300MB/s
Pannello posteriore I/O	• 1 x Porta mouse PS/2 • 1 x Porta tastiera PS/2 • 1 x Porta Seriale • 1 x Porta Parallela • 1 x Porta VGA • 4 x Porta USB 2.0 • 1 x Porta LAN RJ45 • Porta 6/8-canali audio

(segue alla pagina successiva)

Connettori I/O interni	• 2 x Collettori USB 2.0 (supportano 4 porte USB 2.0) • 4 x Connettori SATA • 1 x Connettore Floppy • 1 x Connettore IDE • 1 x Collettore intrusione telaio (INTR) • 1 x Collettore CD_IN • 1 x Collettore altoparlante (optional) • 1 x Collettore S/PDIF_OUT • 1 x Collettore TPM (optional) • 1 x Collettore COM2 (optional) • 1 x Connettore Audio frontale • 1 x Connettore potenza ATX 24 pin • 1 x Connettore potenza ATX_12V 4 pin • 1 x Connettore IrDA (optional) • 1 x Connettore ventolina CPU • 1 x Connettore ventolina di sistema • 1 x Connettore ventolina NB (optional) • Connettore pannello frontale
CD di supporto	• Driver • Utilità

• Le specifiche tecniche sono soggette a cambiamenti senza preavviso.

Технические характеристики- *-Русский*

Размер	• Форм-фактор микро-ATX размером 244 x 208 мм
Процессор	• Гнездо LGA775 для процессоров Intel®_ CoreTM 2 Quad, CoreTM 2 Extreme, CoreTM 2 Duo, Pentium®_Dual-Core, Pentium®_4 Extreme Edition(90nm), Pentium®_D, Pentium®_4, Celeron®
Набор микросхем	• Северный мост: Intel G31 / 946GZ • Южный мост: Intel ICH7
Частота системной шин	• 1333(разгон), 1066, 800 МГц (для G31) • 1066, 800, 533 МГц (для 946GZ)
Память	• 2 240-контактных гнезда DIMM • Двухканальная память DDR2 800, 667 (для G31) • Двухканальная память DDR2 667, 533 (для 946GZ) • Поддержка до 4 Гб
Слоты расширения	• 1 слот PCI Express x16 • 1 слот PCI Express x1 • 2 слота PCI
Звук	• Realtek 6 каналов, звуковой КОДЕК, Realtek 8 каналов, звуковой КОДЕК • Поддержка Выход S/PDIF, функция определения разъема, поддержка технологии Intel® High Definition Audio
ЛВС	• Realtek 10/100 Мбит/с ЛВС, Realtek Gigabit ЛВС
Устройство хранения	• 2 устройств с интерфейсом Ultra DMA 100, 66, 33 • 4 устройств с интерфейсом SATA и скоростью передачи данных 300 Мб/с
Входы и выходы на задней панели	• 1 Порт мыши PS/2 • 1 Порт Клавиатура PS/2 • 1 Последовательный порт • 1 Параллельный порт • 1 Порт VGA • 4 Порты USB 2.0 • 1 Разъем ЛВС RJ45 • Порты 6, 8 каналов, звуковой

(продолжение на следующей странице)

Встроенные входы и выходы	• 2 Разъемы USB 2.0 (поддержка 4 портов USB 2.0) • 4 Разъемы SATA • 1 Разъем дисковода гибких дисков • 1 Разъем IDE • 1 Разъем датчика открывания корпуса (INTR) • 1 Разъем CD_IN • 1 Разъем Динамик (дополнительный) • 1 Разъем выход S/PDIF • 1 Разъем TPM (дополнительный) • 1 Разъем COM2 (дополнительный) • 1 Передний звуковой разъем • 1 Разъем 24-контактный ATX • 1 Разъем 4-контактый ATX_12V • 1 Разъем ИК-порт (дополнительный) • 1 Разъем Вентилятор процессора • 1 Разъем системный Вентилятор • 1 Разъем Вентилятор северного моста (дополнительный) • Передняя панель разъем
Поддержка компакт-дисков	• Драйвер • Служебная программа

• Технические характеристики могут изменяться без уведомления.

مواصفات –لعربيـة

الحجم	• حاوية من نوع Micro ATX مقاس 244مم × 208مم
وحدة المعالجة المركزية	•مقبس LGA775 لمعالجات Intel®_ CoreTM 2 Quad و CoreTM 2 Extreme و CoreTM 2 Duo و Pentium®_Dual-Core و Pentium®_4 (90nm) Edition Extreme و Pentium®_D و Pentium®_4 و Celeron®.
الرقائق	•الجسر الشمالي (Northbridge): Intel G31/946GZ •الجسر الجنوبي (Southbridge): Intel ICH7
ناقل الجانب الأمامي	• 1333 (حاملمصري) / 1066 / 800 ميجا هرتز (G31) • 1066/800/533 ميجا هرتز (946GZ)
الذاكرة	•عدد 2 فتحات DIMM × 240 دبوسا •دعم التصميم ثنائي القناة 800/667 Dual-Channel DDR2 (G31) •دعم التصميم ثنائي القناة 667/533 Dual-Channel DDR2 (946GZ) •دعم يصل إلى 4 جيجا بايت
فتحات التوسعة	•عدد 1 فتحة PCI Express x16 •عدد 1 فتحة PCI Express x1 •عدد 2 فتحات PCI
الصوت	•ترميز صوتي بست قنوات بتقنية Realtek / ترميز صوتي بثمان قنوات بتقنية Realtek •دعم خرج S/PDIF، وظيفة استشعار لمقبس، تقنية Intel® High Definition Audio
شبكة الاتصال المحلية	• Realtek 10/100 Mb/s LAN / Realtek Gigabit LAN
التخزين	•عدد 1 Ultra DMA 100/ 66 /33 •عدد 4 أجهزة SATA 300MB/s
منافذ الدخل/الخرج للوحة الخلفية	•عدد 1 منفذ ماوس PS/2 •عدد 1 منفذ لوحة مفاتيح PS/2 •عدد 1 منفذ تسلسلي •عدد 1 منفذ متوازي •عدد 1 منفذ VGA •عدد 4 منافذ USB 2.0 •عدد 1 منفذ شبكة اتصل محلية RJ45 •منفذ صوتي بست / بثمان قنوات بتقنية

تابع لصفحة التالية

منافذ توصيل الدخل /الخرج الداخلية	• عدد 2 أطراف توصيل USB 2.0 (تدعم 4 منافذ USB 2.0) • عدد 4 منافذ توصيل SATA • عدد 1 منفذ توصيل محرك الأقراص المرنة • عدد 1 منفذ توصيل IDE • عدد 1 طرف توصيل Intruder للهيكل (INTR) • عدد 1 طرف توصيل CD_IN • عدد 1 طرف توصيل السماعة (اختياري) • عدد 1 طرف توصيل خرج S/PDIF • عدد 1 طرف توصيل TPM (اختياري) • عدد 1 طرف توصيل COM2 (اختياري) • موصل الصوت الأمامي • عدد 1 موصل طاقة ATX ، 24 دبوس • عدد 1 موصل طاقة ATX_12V × 4 دبابيس • عدد 1 طرف توصيل IrDA (اختياري) • عدد 1 مروحة لوحدة المعالجة المركزية • عدد 1 موصل لمروحة النظام • عدد 1 مروحة NB (اختياري) • موصل اللوحة الأمامية
دعم القرص المدمج	• برنامج التشغيل • الأدوات

•قد تتغير المواصفات بدون إخطار مسبق.

Jumpers

This section explains how to setup jumpers. You should read the following content carefully prior to modifying any jumper settings.

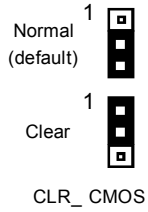
Attention

The jumpers on the motherboard, pin 1 can be identified by the bold silkscreen next to it. And in this manual, pin 1 is simply labeled as "1".

Clear CMOS Jumper: CLR_CMOS

The CLR_CMOS jumper allows you to clear the data in CMOS. The data includes system setup information such as system password, data, time, and system setup parameters. To clear and reset the system parameters to default setup, please do as follows:

1. Turn off the computer and unplug the power cord from the power supply.
2. Move the jumper cap from pins 2-3 (default) to pins 1-2. Keep the cap on pins 1-2 for several seconds, then move the cap back to pins 2-3.
3. Plug the power cord and turn on the computer.



CLR_ CMOS

USB device wake-up Jumper: USBPW1357_1/USBPW0246_1

1.Set the jumper to pins 1-2 (+5V) to wake up the computer from S1 sleep mode using the connected USB devices.

2.Set the jumper to pins 2-3 (+5VSB) to wake up the computer from S3 sleep mode using the connected USB devices. At the same time, a corresponding setting must be set in BIOS as below:

Set "CMOS Setup"->"Power Management Setup"->"Power Management Events"->"USB KB Wake-Up From S3" to "Enabled".

USBPW1357_1/USBPW0246_1

Note

1. USBPW0246_1 is for the internal USB connectors, USBPW1357_1 is for the rear USB ports.
2. The USB device wake-up feature requires a power supply that can provide 500mA on +5VSB lead for each USB port; otherwise, the system will not power up.
3. The total current consumed must not exceed the power supply capability (+5VSB) whether under normal condition or in sleep mode.

Keyboard and Mouse Jumper: KB/MS_PW

This jumper allows you to enable or disable the Keyboard and Mouse wake-up feature. Set the jumper to pins 2-3(+5VSB) to wake up the computer from S3 and S4 sleep modes when you press a key on the keyboard or move the mouse, and a corresponding setting in the BIOS.

KB/MS_PW

Chapter 2

This chapter introduces how to change system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided.

You have to run the Setup Program when the following cases occur:

1. An error message appears on the screen during the system POST process.
2. You want to change the default CMOS settings.

This chapter includes the following information:

- Enter BIOS Setup
- Main Menu
  - Standard CMOS Features
  - FOX Central Control Unit
  - Advanced BIOS Features
  - Advanced Chipset Features
  - Integrated Peripherals
  - Security Chip Configuration
  - Power Management Setup
  - PC Health Status
  - Load Optimized Defaults
  - Set Supervised Password
  - Set User Password
  - Save and Exit Setup
  - Exit Without Saving

Enter BIOS Setup

The BIOS is the communication bridge between hardware and software. Correctly setting up the BIOS parameters is critical to maintain optimal system performance. Power on the computer, when the following message briefly appears at the bottom of the screen during the POST (Power On Self Test), press <Del> key to enter the BIOS CMOS Setup Utility.

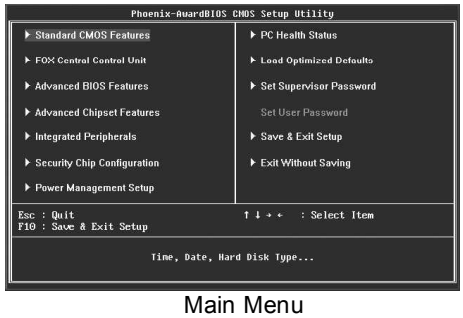
Press TAB to show POST Screen, DEL to enter SETUP, Esc to enter Boot Menu.

Note:

We do not suggest that you change the default parameters in the BIOS Setup, and we shall not be responsible for any damage that results from any changes that you make.

Main Menu

The main menu displays a list of options that are available. Use the arrow keys to highlight an item, and execute the item by pressing <Enter>.



Main Menu

The items in the main menu are explained as below:

1. Standard CMOS Features

The basic system configuration can be set up through this menu.

2. FOX Central Control Unit

The special features can be set up by this menu.

3. Advanced BIOS Features

The advanced system features can be set up through this menu.

4. Advanced Chipset Features

The values for the chipset can be changed through this menu, and the system performance can be optimized.

5. Integrated Peripherals

All onboard peripherals can be set up through this menu.

6. Security Chip Configuration (optional)

This menu is only for G31MX Series motherboard.

Only the TPM device connected to the computer, this item will appear, you can press <Enter> to set some parameters of TPM device.

7. Power Management Setup

Through this menu you can set up all the items of Green function features.

8. PC Health Status

This menu will display the current status of your PC.

9. Load Optimized Defaults

You can load the optimal performance settings by this menu; however, the stable default values may be affected.

10. Set Supervisor Password

The supervisor password can be set up through this menu.

11. Set User Password

The user password can be set up through this menu.

12. Save & Exit Setup

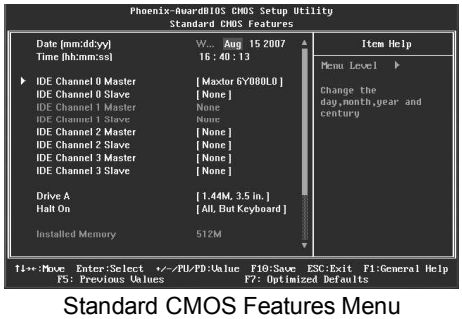
Save CMOS value settings to CMOS and exit setup.

13. Exit Without Saving

Abandon all CMOS value changes and exit setup.

1.Standard CMOS Features

This sub-menu is used to set up the standard CMOS parameters, such as the date, time, floppy driver and so on. Select the item by the arrow keys, and then use the <+> or <-> keys to choose the setting values.


Phoenix-AwardBIOS CMOS Setup Utility
Standard CMOS Features
Date [mm:dd:yy] W... Aug 15 2007
Time [hh:mm:ss] 16 : 40 : 13
IDE Channel 0 Master [Maxtor 6Y080L0]
IDE Channel 0 Slave [None]
IDE Channel 1 Master None
IDE Channel 1 Slave None
IDE Channel 2 Master [None]
IDE Channel 2 Slave [None]
IDE Channel 3 Master [None]
IDE Channel 3 Slave [None]
Drive A [1.44M, 3.5 in.]
Halt On [All, But Keyboard]
Installed Memory 512M
Item Help
Menu Level
Change the day,month,year and century
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Standard CMOS Features Menu

1.1 Date/Time

These item allows you to set up the desired time and date(usually as the current time and date) with <hour><minute><second><day><month> <date><year> format.

Day—weekday from Sun. to Sat.
Month—month from 1 to 12
Date—date from 1st to 31st
Year—year, set up by users.
Use <ENTER>,<TAB> or <SHIFT+TAB]>to select a field.Use <+>or <-> to configure system time and date.

1.2 IDE Channel 0/1/2/3 Master/slave

These categories identify the HDD types of 1 IDE channel installed in the computer system. There are three choices provided for the Enhanced IDE BIOS: None, Auto, and Manual. “None” means no HDD is installed or set; “Auto” means the system can auto-detect the hard disk when booting up; by choosing “Manual” and changing Access Mode to “CHS”, the related information should be entered manually. Enter the information directly from the keyboard and press < Enter>:

Cylinder	number of cylinders	Head	number of heads
Precomp	write pre-compensation	Landing Zone	landing zone
Sector	number of sectors		

Award (Phoenix) BIOS can support 3 HDD modes: CHS, LBA and Large.

CHS	For HDD<528MB
LBA	For HDD>528MB & supporting LBA (Logical Block Addressing)
Large	For HDD>528MB but not supporting LBA

Note: Set to [Auto] , the system can detect the hard disk and select the HDD mode automatically when booting up. Suggest you select this option.

1.3 Drive A

This option allows you to select the kind of FDD to be installed, including [None], [360K, 5.25 in], [1.2M, 5.25 in], [720K, 3.5 in], [1.44M, 3.5 in] and [2.88 M, 3.5 in].

1.4 Halt On

This category determines whether or not the computer will stop if an error is detected during powering up.

All Errors	Whenever the BIOS detects a nonfatal error, the system will stop and you will be prompted.
No Errors	The system boot will not stop for any errors that may be detected.

All, But Keyboard	The system boot will not stop for a keyboard error; but it will stop for all other errors.
All, But Diskette	The system boot will not stop for a diskette error; but it will stop for all other errors.
All, But Disk/Key	The system boot will not stop for a keyboard or disk error; but it will stop for other errors.

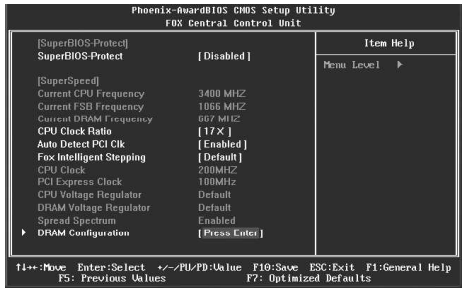
1.5 Installed Memory

This is a Display-Only Category, showing the capacity of your installed memory.

1.6 BIOS ID

This option shows the BIOS ID.

2.FOX Central Control Unit



FOX Central Control Unit Menu

2.1 SuperBIOS-Protect

SuperBIOS Protect function protects your BIOS from being affected by viruses, e.g.CIH.

2.2 Current CPU Frequency

This option shows the current frequency of CPU.

2.3 Current FSB Frequency

This option shows the current frequency of FSB.

2.4 Current DRAM Frequency

This option shows the current frequency of DRAM.

2.5 CPU Clock Ratio

This option is used to set the ratio of an unlocked CPU. Using different CPU, the setting values are different.

2.6 Auto Detect PCI Clk

This option is used to auto detect PCI slots. When enabled, the system will move(turn off) the empty PCI slot clock to reduce EMI(Electro-Magnetic Interference).

2.7 FOX Intelligent Stepping

You can select different overclock option by this item. The available setting values are: Default, Manual, Step1, Step2, Step 3.

2.8 CPU Clock

This option is used to set the CPU clock.

2.9 PCI Express Clock

This option is used to set the PCI Express clock.

2.10 CPU Voltage Regulator

This option is used to regulate the CPU voltage.

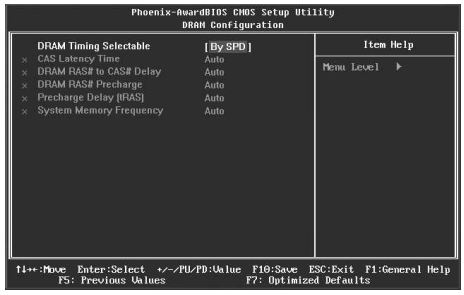
2.11 DRAM Voltage Regulator

This option is used to regulate the DRAM voltage.

2.12 Spread Spectrum

When enabled, it can significantly reduce the EMI (Electromagnetic Interference) generated by the system.

2.13 DRAM Configuration


Phoenix-AwardBIOS CMOS Setup Utility
DRAM Configuration
DRAM Timing Selectable [By SPD]
CAS Latency Time Auto
DRAM RAS# to CAS# Delay Auto
DRAM RAS# Precharge Auto
Precharge Delay (tRAS) Auto
System Memory Frequency Auto
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

DRAM Configuration Menu

DRAM Timing Selectable

This item determines DRAM clock/ timing using SPD or manual configuration.

CAS Latency Time

This item determines CAS Latency. The available setting values are: 3, 4, 5 and Auto.

DRAM RAS# to CAS# Delay

This item allows you to select a delay time between the CAS and RAS strobe signals. The available setting values are: 3, 4, 5, 6 and Auto.

DRAM RAS# Precharge

This item allows you to select the DRAM RAS# precharge time. The available setting values are: 3, 4, 5, 6 and Auto.

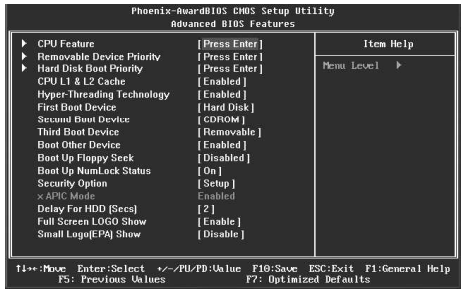
Precharge Delay(tRAS)

This item allows you to set the precharge delay time. The available setting values are: Auto, 9, 10, 11, 12, 13, 14, 15.

System Memory Frequency

This item allows you to set the memory frequency of your system.

3.Advanced BIOS Features


Phoenix-AwardBIOS CMOS Setup Utility
Advanced BIOS Features
CPU Feature [Press Enter]
Removable Device Priority [Press Enter]
Hard Disk Boot Priority [Press Enter]
CPU L1 & L2 Cache [Enabled]
Hyper-Threading Technology [Enabled]
First Boot Device [Hard Disk]
Second Boot Device [CDROM]
Third Boot Device [Removable]
Boot Other Device [Enabled]
Boot Up Floppy Seek [Disabled]
Boot Up NumLock Status [On]
Security Option [Setup]
x APIC Mode Enabled
Delay For HDD (Secs) [2]
Full Screen LOGO Show [Enable]
Small Logo(EPA) Show [Disable]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Advanced BIOS Features Menu

3.1 CPU Feature

You can press <Enter> to set the items of CPU feature.

3.2 Removable Device Priority

This option is used to select the priority for removable device, e.g. floppy.

3.3 Hard Disk Boot Priority

This option is used to select the priority for HDD startup. After pressing <Enter>, you can select the HDD using the Up / Down arrow keys, and change the HDD priority using <PageUp> / <PageDn> or <+> / <->; you can exit this menu by pressing <Esc>.

3.4 CPU L1&L2 Cache

This option is used to turn on or off the L1 and L2 CPU cache.

3.5 Hyper-Threading Technology

Enable or disable Hyper-Threading technology.

3.6 First/Second/Third Boot Device

Allows you to set the boot device's sequence.

3.7 Boot Other Device

While enabled, the system will boot from some other devices if the first/ second/third boot devices failed.

3.8 Boot Up Floppy Seek

This option controls whether the BIOS checks for a floppy drive while booting up. If it cannot detect one (either due to improper configuration or physical unavailability), it will appear an error message.

3.9 Boot Up NumLock Status

Allows you to select the power-on status for the NumLock. The available setting values are: On and Off.

3.10 Security Option

When it is set to "Setup", a password is required to enter the CMOS Setup screen; When it is set to "System", a password is required not only to enter CMOS Setup, but also to start up your PC.

3.11 APIC Mode

This option is used to enable or disable APIC function.

3.12 Delay For HDD(Secs)

This option is used to set the delay time of selecting the HDD controller.

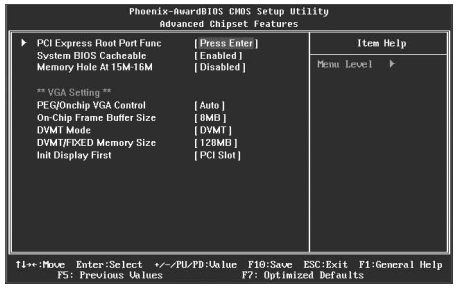
3.13 Full Screen LOGO Show

This option allows you to enable or disable the full screen logo.

3.14 Small Logo (EPA) Show

This item allows you to enable or disable the EPA logo.

4.Advanced Chipset Features


Phoenix-AwardBIOS CMOS Setup Utility
Advanced Chipset Features
PCI Express Root Port Func [Press Enter]
System BIOS Cacheable [Enabled]
Memory Hole At 15M-16M [Disabled]
** VGA Setting **
PEG/Onchip VGA Control [Auto]
On-Chip Frame Buffer Size [8MB]
DVMT Mode [DVMT]
DVMT/FIXED Memory Size [128MB]
Init Display First [PCI Slot]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Advanced Chipset Features Menu

4.1 PCI Express Root Port Func

This option is used to configure the PCI Express port.

4.2 System BIOS Cacheable

Select "Enabled" to allow caching of the system BIOS which may improve performance. If any other program writes to this memory area, a system error may result.

4.3 Memory Hole At 15M-16M

This item is used to determine whether the 15M-16M address field of memory is reserved for the ISA expansion card.

4.4 PEG/Onchip VGA Control

This item is used to enable or disable PEG and onboard VGA.

4.5 On-Chip Frame Buffer Size

This item is used to set the VGA frame buffer size.

Note: This function does not work when the external display card is used.

4.6 DVMT Mode

This item is used to set the DVMT mode.

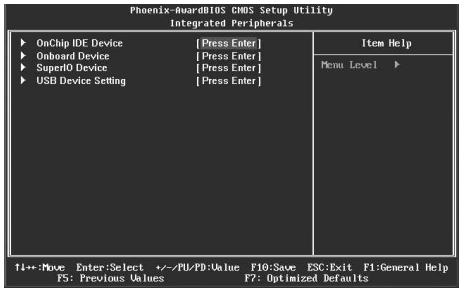
4.7 DVMT/FIXED Memory Size

This item is used to set the DVMT/FIXED memory size.

4.8 Init Display First

This item is used to select the initial display device used when your PC starts up.

5.Integrated Peripherals


Phoenix-AwardBIOS CMOS Setup Utility
Integrated Peripherals
OnChip IDE Device [Press Enter]
Onboard Device [Press Enter]
SuperIO Device [Press Enter]
USB Device Setting [Press Enter]
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Integrated Peripherals Menu

5.1 OnChip IDE Device

This sub-menu is used for the configuration of IDE devices. You can press <Enter> to set the avaliable values of items.

5.2 Onboard Device

This sub-menu is used for the configuration of onboard devices.

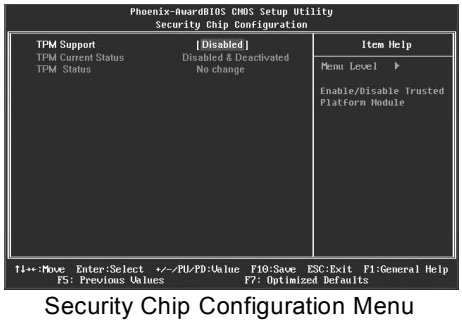
5.3 SuperIO Device

This sub-menu is used for the configuration of I/O devices, such as serial port, parallel port and so on.

5.4 USB Device Setting

This sub-menu is used to set the parameters of USB devices.

6.Security Chip Configuration (optional)


Phoenix-AwardBIOS CMOS Setup Utility
Security Chip Configuration
TPM Support [Disabled]
TPM Current Status Disabled & Deactivated
TPM Status No change
Item Help
Menu Level ▶
Enable/Disable Trusted Platform Module
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Security Chip Configuration Menu

Note: This menu is only for G31MX Series motherboard, and only the TPM device connected to the computer, this menu will appear, at the same time you can set some parameters of TPM device.

6.1 TPM Support

This item is used to enable or disable TPM function.

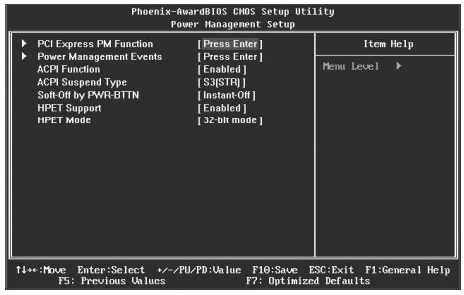
6.2 TPM Current Status

Through this item you can see the current status of TPM device.

6.3 TPM Status

You can set the next status of TPM device when your computer reset. The available setting values are: No change, Clear, Enable & Active, Deactivate & Disable.

7.Power Management Setup


Phoenix-AwardBIOS CMOS Setup Utility
Power Management Setup
PCI Express PM Function [Press Enter]
Power Management Events [Press Enter]
ACPI Function [Enabled]
ACPI Suspend Type [S3(STR)]
Soft-Off by PWR-BTTN [Instant-Off]
HPET Support [Enabled]
HPET Mode [32-bit mode]
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F7: Optimized Defaults

Power Management Setup Menu

7.1 PCI Express PM Function

Allows you to set the power management of PCI Express.

7.2 Power Management Events

You can press <Enter> to set the parameters of power management events.

7.3 ACPI Function

ACPI(Advanced Configuration and Power Interface) is a standard that defines power and configuration management interfaces between an operating system and the BIOS. In other words, it is a standard that describes how computer components work together to manage system hardware. In order to use this function the ACPI specification must be supported by the OS (for example, Windows2000 or WindowsXP).

7.4 ACPI Suspend Type

This option is used to set the energy saving mode of the ACPI function. When you select “S1 (POS)” mode, the power will not shut off and the supply status will remain as it is, in S1 mode the computer can be resumed at any time. When you select “S3 (STR)” mode, the power will be cut off after a delay period. The status of the computer before it enters STR will be saved in memory, and the computer can quickly return to previous status when the STR function wakes.

7.5 Soft-Off by PWR-BTTN

This option is used to set the power down method.This function is only valid for systems using an ATX power supply. When select “Instant-off”, once press power buttton, the power turns off immediately; When select “Delay 4 sec”, the power will be off after the power button is pressed more than 4 seconds.

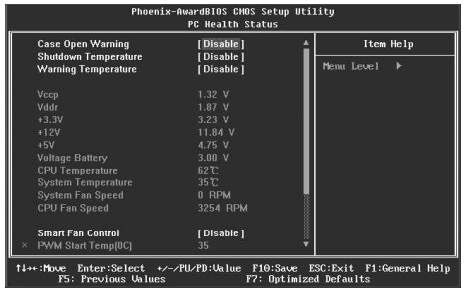
7.6 HPET Support

This option allows you to enable or disable High Precision Event Timer function. If you use windows vista processing system, we intensively suggest that you set this option to “Enabled”.

7.7 HPET Mode

This option is used to set the High Precision Event Timer mode. The available setting values are: 32-bit mode, 64-bit mode. It is available only when “HPET” is enabled.

8.PC Health Status



PC Health Status Menu

8.1 Case Open Warning

Enable or disable the chassis open status feature.

8.2 Shutdown Temperature

This option is used to set the high limit system temperature. When the temperature exceeds the setting value, the motherboard will automatically cut off power to the computer.

8.3 Warning Temperature

This option is used to set the warning temperature for the system. When the temperature of CPU is higher than setting value, the motherboard will send off warning information.

8.4 Vccp/Vddr/+ 3.3V/+12V/+5V

The current voltages will be automatically detected by the system.

8.5 CPU/System Temperature

The current CPU/system temperature will be automatically detected by the system.

8.6 System/CPU Fan Speed

The current system /CPU fan speed will be automatically detected by the system.

8.7 Smart Fan Control

This option is used to enable or disable smart fan function. Only when this option is enabled, you can set some correlative parameters as follows.

PWM Start Temp(℃)

Allows you set the PWM start temperature which is initial temperature of smart fan. When the temperature achieve the value and "Smart Fan Control" is enabled, the smart fan will be turn on.

Start PWM Value

This option allows you to set the initial PWM value of smart fan.

Slope PWM Value

This option is used to set slope value of smart fan curve.

Deita Temp(℃)

This option is used to set the temperature delta. When the change amplitude of temperature achieves the value, the PWM value will increase or decrease by slope.

9.Load Optimized Defaults

This menu can let you load the optimized defaults set by BIOS, which have set the optimized performance parameters of system to improve the performances of system components. You can select <Y> or <N> and then press <Enter> to load or not load the optimized defaults.

10-11.Set Supervisor/User Password

The access rights and permissions associated with the Supervisor password are higher than those of a regular User password. The Supervisor password can be used to start the system or modify the CMOS settings. The User password can also start the system. While the User password can be used to view the current CMOS settings, these settings cannot be modified using the User password. When you select the Set Supervisor/User Password option, the following message will appear in the center of the screen, which will help you to set the password:

Enter Password:

Enter your password, not exceeding 8 characters, then press <Enter>. The password you enter will replace any previous password. When prompted, key in the new password and press <Enter>.

If you do not want to set a password, just press <Enter> when prompted to enter a password, and in the screen the following message will appear. If no password is keyed in, any user can enter the system and view/modify the CMOS settings.

Password Disabled!!!

Press any key to continue …

Under the menu "Advanced BIOS Features", if you select "System" from the Security Option, you will be prompted to enter a password once the system is started or whenever you want to enter the CMOS setting program. If the incorrect password is entered, you will not be permitted to continue.
Under the menu "Advanced BIOS Features", if you select "Setup" from the Security Option, you will be prompted to enter a password only when you enter the CMOS setting program.

12.Save and Exit Setup

When you select this option and press <Enter>, the following message will appear in the center of the screen:

SAVE to CMOS and EXIT (Y/N)?Y

Press <Y> to save your changes in CMOS and exit the program; press <N> or <ESC> to return to the main menu.

13.Exit Without Saving

If you select this option and press <Enter>, the following message will appear in the center of the screen:

Quit Without Saving (Y/N)?Y

Press <Y> to exit CMOS without saving your modifications; press <N> or <ESC> to return to the main menu.

Chapter 3

This chapter will introduce how to use attached software.

This chapter provides the following information:

- FOX ONE
- FOX LiveUpdate
- FOX LOGO
- FOX DMI

FOX ONE

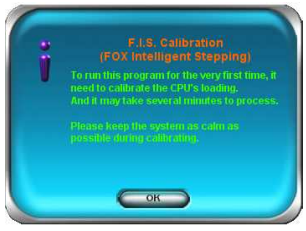
FOX ONE is a powerful utility for easily modifying system settings. It also allows users to monitor various temperature values, voltage values, frequency and fan speed at any time.

Supported Operating Systems:

-Windows 2000
-Windows XP (32-bit and 64-bit)
-Windows 2003 (32-bit and 64-bit)
-Windows Vista (32-bit and 64-bit)

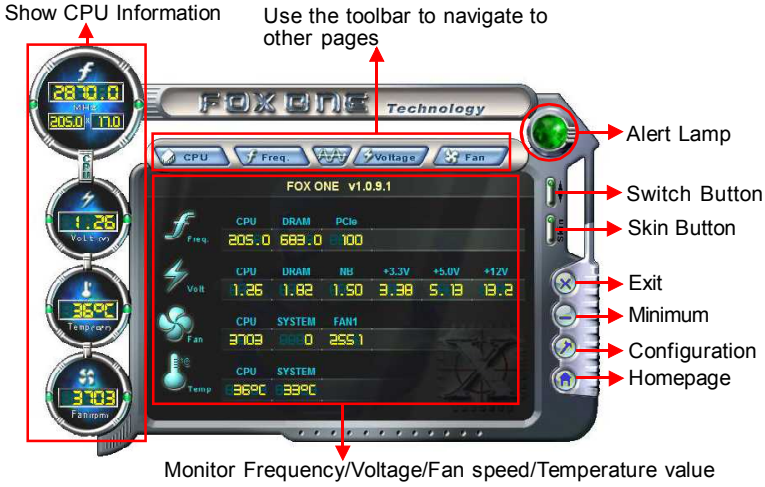
Using FOX ONE:

The very first time you run FOX ONE, F.I.S. Calibration function (FOX Intelligent Stepping) will require you to calibrate the CPU's loading. Click "OK" to process and start the Utility.


F.I.S. Calibration
(FOX Intelligent Stepping)
To run this program for the very first time, it need to calibrate the CPU's loading.
And it may take several minutes to process.
Please keep the system as calm as possible during calibrating.
OK

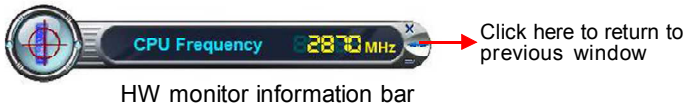
Note: Only when your computer supports F.I.S. Calibration function(FOX Intelligent Stepping), the calibraion process will appear, or you can start FOX ONE directly.

1. Main Page



Alert Lamp
When the system is in healthy status, the alert lamp color is green. When in abnormal status, the color will turn red.

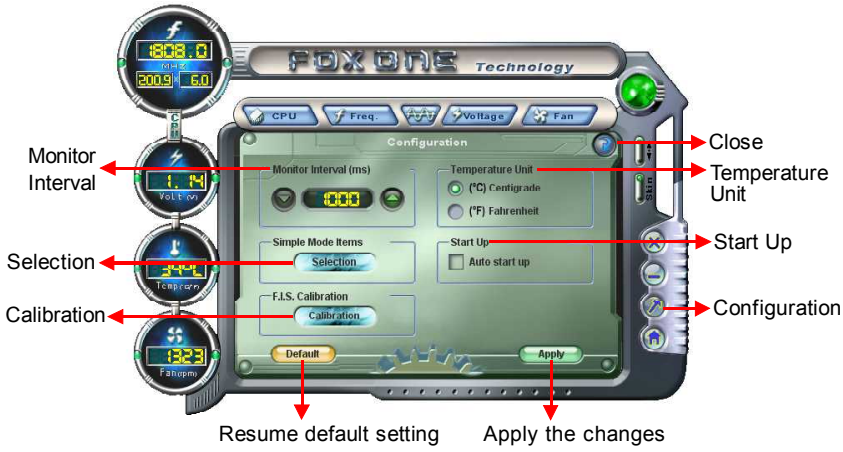
Switch Button
Click this button, it will simplify the window to HW monitor information bar as the below figure shows. The bar could help you to monitor whether your system is in the healthy status or not at any time.



HW monitor information bar

Skin Button
Click this button, you will see the additive figures, such as “Crystal”and “Rock”.You may select your favorite skin.

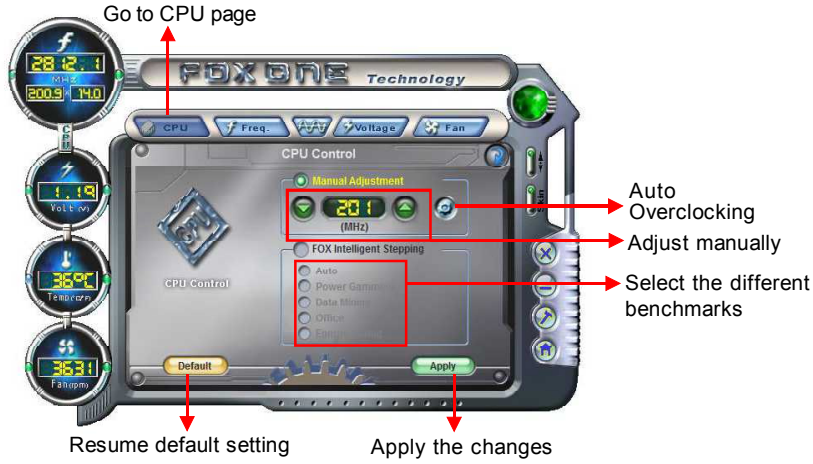
Configuration
This page allows you to select monitor interval time (ms) and temperature unit. It also provides “Auto start up” function. Besides, click “Selection” to determine which items will be shown in simple mode. In “F.I.S. Calibration”section, we recommend you re-calibrate the CPU’s loading by clicking “calibration” button after changing the CPU or memory modules, then restart the computer to apply new setting. **Attention:** F.I.S. calibration function is optional.



Homepage
Click this button to visit Foxconn global English website.

2. CPU Page - CPU Control

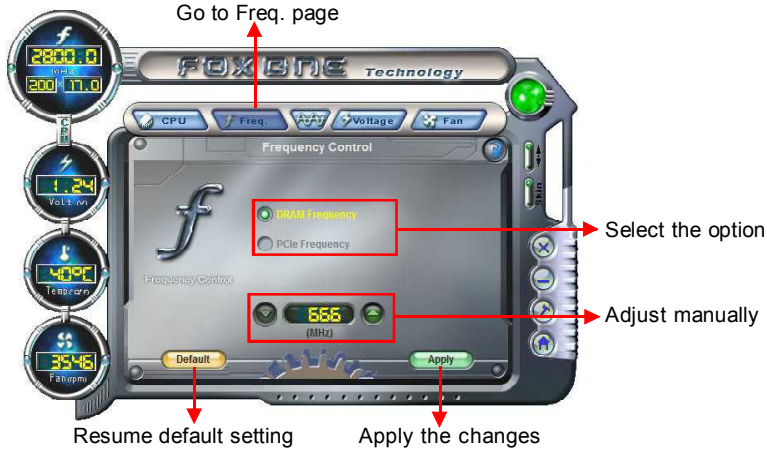
This page is used to select and run the CPU frequency to determine the current performance level of the system. You can adjust the CPU frequency manually or select “Auto Overclock”. Besides, it also provides “FOX Intelligent Stepping”, but this function is optional.



3. Freq. Page - Frequency Control

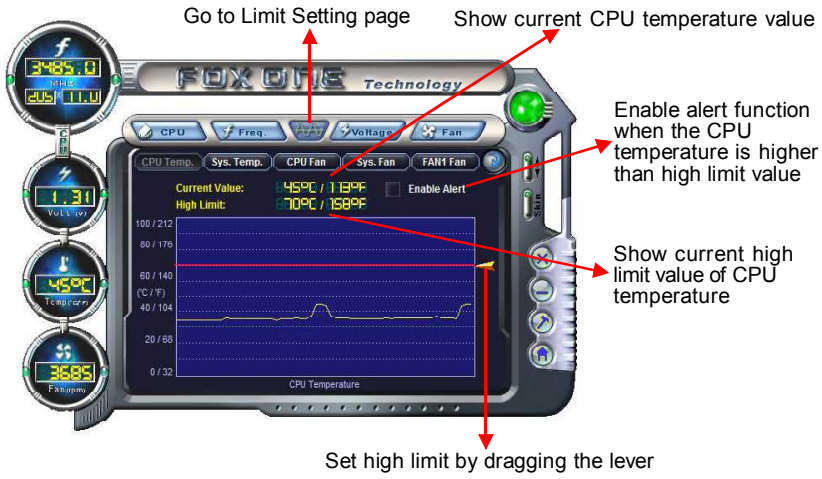
In this page, you can set memory and PCIe frequency manually.

Note: The function of PCIe Frequency is optional.



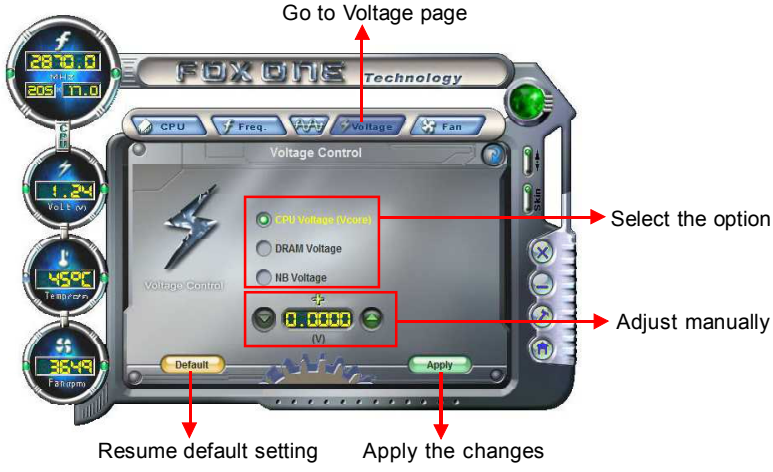
4. Limit Setting page

This page includes five different sections. “CPU Temp.” and “Sys. Temp.” will help you to set high limit temperature. “CPU Fan”, “Sys. Fan” and “FAN1 fan” are used to set low limit rpm. All of them have alert function.



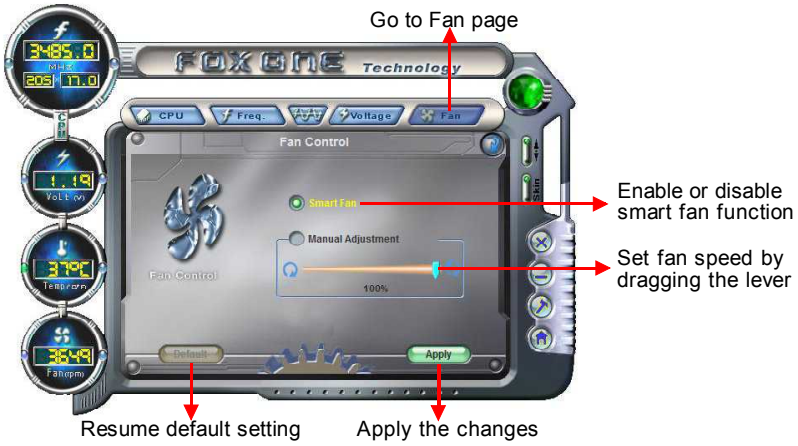
5. Voltage Page - Voltage Control (Optional)

This page allows you to set CPU, memory and North Bridge voltage manually.



6. Fan Page - Fan Control

This page allows you to enable Smart Fan function and set fan speed manually.



FOX LiveUpdate

FOX LiveUpdate is a useful utility to backup and update the system BIOS online or locally. Drivers and utilities aslo can be updated online.

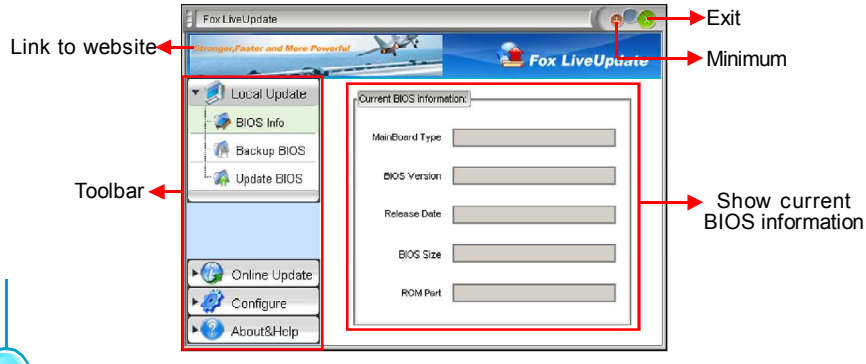
Supported Operating Systems:

-Windows 2000
-Windows XP (32-bit and 64-bit)
-Windows 2003 (32-bit and 64-bit)
-Windows Vista (32-bit and 64-bit)

Using FOX LiveUpdate:

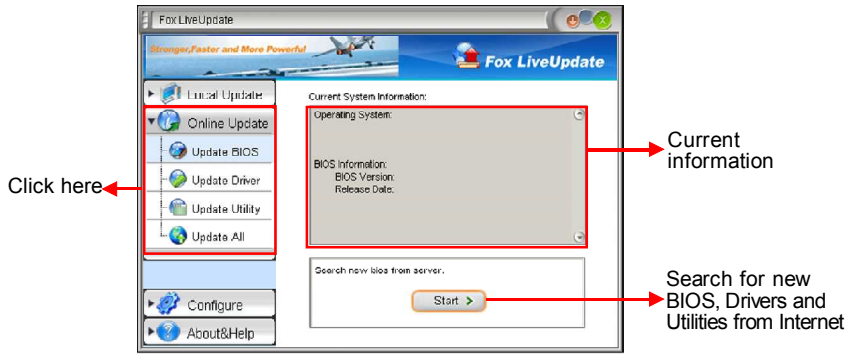
1. Local Update

"**BIOS Info**" tells you the system BIOS information; "**Backup BIOS**" could backup your system BIOS, click this button ,then input a BIOS name and save it; "**Update BIOS**" helps to update your system BIOS from local BIOS files, please follow the request to finish the operation.



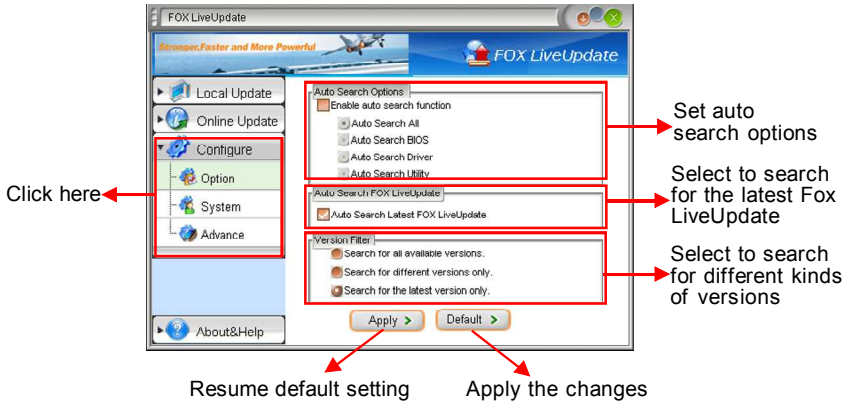
2. Online Update

This function enables you to update your system BIOS, Drivers, Utilities and all of them from Internet. Click “start”, it will search for the new BIOS, Drivers and Utilities from Internet. Then follow the request to finish the update operation.



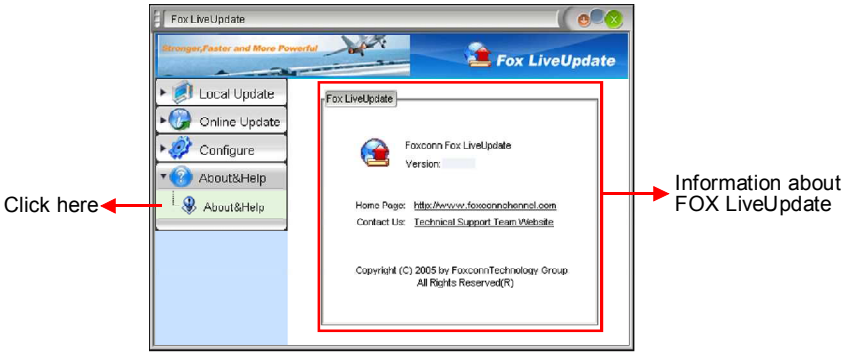
3. Configure

“**Option**” provides “auto search options”, “auto search Fox LiveUpdate” and “version filter”. After setting “auto search options” and “auto search Fox LiveUpdate”, the utility will work in the background and the related information will show in a pop balloon notification and a dialogue box; click the “**System**” button, you can set the backup BIOS location and select different kinds of skin for the utility; “**Advance**” helps you to flash BIOS, boot Block and clear CMOS, and we recommend you keep the default setting unchanged to avoid damage.



4. About & Help

This page shows some information about FOX LiveUpdate.



FOX LOGO

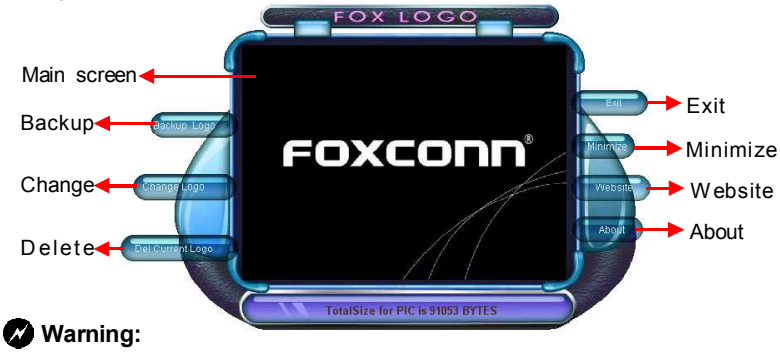
FOX LOGO is a simple and useful utility to backup, change and delete the boot Logo. The boot Logo is the image that appears on screen during the Power-On Self-Tests (POST).

Supported Operating Systems:

-Windows 2000
-Windows XP (32-bit and 64-bit)
-Windows 2003 (32-bit and 64-bit)
-Windows Vista (32-bit and 64-bit)

Using FOX LOGO:

Main Page



Warning:

When you change Logo or delete current Logo, the system will flash BIOS file automatically. During this time, DO NOT shut down the system and the application, or the motherboard would be damaged seriously.

FOX DMI

FOX DMI is a full DMI information viewer, and it supports three kinds of DMI Data format :Report, Data Fields and memory Dump.

Supported Operating Systems:

-Windows 2000
-Windows 2003 (32-bit and 64-bit)
-Windows XP (32-bit and 64-bit)
-Windows Vista (32-bit and 64-bit)

Using FOX DMI:

Please operate this utility as the comments show.